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Superfund Records Center

SITE: PiccoloBREAK: 11.9OTHER: 644294

August 25, 1982

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Joel Blumstein, Esq.
Office of Regional Counsel
U. S. Environmental Protection Agency
Region I
J. F. Kennedy Federal Building
Room 2103
Boston, Massachusetts 02203

RECEIVED

AUG 27 1982

Re: Piccilo Waste Site - Coventry, Rhode Island
Request for Information

REGION I
OFFICE OF REGIONAL COUNSEL

Dear Mr. Blumstein:

The Philip A. Hunt Chemical Corporation ("Hunt Chemical") has referred to my attention Mr. Lester A. Sutton's letter to Hunt Chemical dated July 22, 1982, and received on July 28, 1982, regarding the above matter. In that letter Mr. Sutton requests that Hunt Chemical, in an effort to complete EPA's inquiry into the Piccilo waste disposal site, provide EPA with certain information. The basis for EPA's request is that drums bearing Hunt Chemical markings were found at the Piccilo site.

Although about 45 drums bearing Hunt Chemical markings and identification were found at the Piccilo site, it has been established that the waste material in those drums was not generated by Hunt Chemical. To the contrary, the material was generated by customers of Hunt Chemical who purchased fresh material from Hunt Chemical and use it in their electroplating and etching process. During that process, the fresh material becomes a waste containing heavy metals. Enclosed herewith are copies of analyses performed on samples from the drums at the Piccilo site. These test results confirm that the waste material is used or "spent" ferric chloride and/or ferrous chloride etchant.

Furthermore, I have been advised by company officials that no present employees at Hunt Chemical's Rhode Island facilities have



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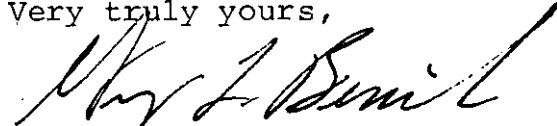
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Joel Blumstein, Esq.
U.S. Environmental Protection Agency
August 25, 1982
Page Two

any knowledge regarding the disposal of hazardous waste generated by Hunt Chemical at the Piccilo site. Nor do any of the invoices for disposal of waste material identify or refer to the Piccilo site as the ultimate disposal facility. As such, disclosure of the other information that you request is not relevant to EPA's investigation of the Piccilo site.

Please contact me if you have any questions regarding this.

Very truly yours,



Gregory L. Benik



Philip A. Hunt Chemical Corporation
Analytical Research

08210007

HCC 004

ELA

RESEARCH REPORT No. _____

to: B. Weisberg

DATE 6/7/82

PROJECT 907/Environmental

TITLE Analysis of Drums From the
Picille Waste Site

ABSTRACT:

The following tests were performed on the thirty-nine samples from the Picille waste site.

Ferric Chloride Test

Each sample was diluted 1 to 100 (after shaking to insure homogeneity) with distilled water. Two milliliters of a 1.0% Potassium Thiocyanate solution was then added to each sample. A positive test gave a blood red solution.

pH

The pH of each sample was measured using glass and calomel electrodes. The meter was recalibrated after every three samples with buffer.

Ferrous Iron Test

Samples which gave a negative Ferric Iron test were analyzed for Ferrous Iron (actually total iron) by Atomic Absorption Spectroscopy. A suitable Ferrous Iron spot test could not be found due to interference by Copper. One milliliter of each sample was diluted to a liter with distilled water. If the meter did not move, a negative test is reported. If the meter is onscale or goes offscale, then a positive test is reported. A 5 ppm Iron sample was used as a standard. The following conditions were used: A Perkin-Elmer 290(B) AA at 248nm wavelength and a slit setting of 0.2nm. An air-acetylene flame was used.

Copper Test

Samples which gave negative tests for both Ferric and Ferrous Iron were analyzed for copper. Each sample was diluted 1 to 100 with distilled water, then 2 ml of Ammonia was added giving a deep blue solution with a white precipitate for a positive test.

Lead Test

Each sample was analyzed for approximate levels of lead by Atomic Absorption Spectroscopy using the following conditions: a Perkin-Elmer 290(B) AA at 283nm with slit setting of 0.7nm and an air-acetylene flame.

REPORT WRITTEN BY Gary Sianka

REPORT APPROVED BY _____

REFERENCE GS-1206-114

cc: A. Bredd
J. Lee
A. Stein
E. Fitzgerald
B. Almeida



Philip A. Hunt Chemical Corporation
Analytical Research

00010008

RESEARCH REPORT No. _____

TO: B. Weisberg

DATE 6/7/82

PROJECT _____

TITLE _____

ABSTRACT:

| <u>Sample</u> | <u>pH</u> | <u>Ferric</u> | <u>Ferrous</u> | <u>Copper</u> | <u>Lead (ppm)</u> |
|---------------|-----------|---------------|----------------|---------------|-------------------|
| 1. 466 | 0.7 | P | | | 105 |
| 2. 467 | 1.7 | N(trace) | P | | 5 |
| 3. 489 | 0.3 | N | N | P | 5 |
| 4. 513 | - | N | N | P | 10 |
| 5. 539 | - | N | N | P | 12 |
| 6. 679 | - | N | N | P | 8 |
| 7. 725 | - | N | N | P | 20 |
| 8. 839 | - | P | | | 15 |
| 9. 853 | 0.4 | P | | | 20 |
| 10. 965 | - | P | | | 8 |
| 11. 986 | 0.6 | N(trace) | P | | 16 |
| 12. 992 | 0.2 | P | | | 15 |
| 13. 1006 | - | P | | | 15 |
| 14. 1010 | 0.1 | P | | | 17 |
| 15. 1012 | 0.2 | P | | | 15 |
| 16. 1027 | 0.5 | P | | | 10 |
| 17. 1032 | 0.1 | P | | | 20 |
| 18. 1033 | 0.9 | N(trace) | P | | 30 |
| 19. 1034 | - | P | | | 17 |

REPORT WRITTEN BY Gary Sienko

REPORT APPROVED BY _____

REFERENCE GS-1206-11

TOP SECRET



Philip A. Hunt Chemical Corporation
Analytical Research

08210009

RESEARCH REPORT No. _____

TO: E. Weisberg

DATE 6/7/82

PROJECT 907/Environmental

TITLE Analysis of Drums From the
Picillo Waste Site

ABSTRACT:

| | <u>Sample</u> | <u>pH</u> | <u>Ferric</u> | <u>Ferrous</u> | <u>Copper</u> | <u>Lead (ppm)</u> |
|-----|---------------|-----------|---------------|----------------|---------------|-------------------|
| 20. | 1036 | 0.9 | N(trace) | P | | 80 |
| 21. | 1037 | 0.5 | P | | | 80 |
| 22. | 1038 | 0.0 | P | | | 18 |
| 23. | 1039 | 0.3 | N(trace) | P | | 80 |
| 24. | 1040 | 0.3 | N(trace) | P | | 25 |
| 25. | 1041 | - | P | | | 15 |
| 26. | 1047 | 0.4 | P | | | 20 |
| 27. | 1054 | 0.5 | P | | | 10 |
| 28. | 1057 | 1.0 | P | | | 20 |
| 29. | 1058 | - | P | | | 12 |
| 30. | 1061 | 0.3 | P | | | 20 |
| 31. | 1065 | - | P | | | 10 |
| 32. | 1098 | 0.7 | N | P | | 80 |
| 33. | 1099 | 0.1 | P | | | 100 |
| 34. | 1100 | 0.2 | P | | | 100 |
| 35. | 1104 | 1.0 | N(trace) | P | | 100 |
| 36. | 1105 | 0.1 | P | | | 15 |
| 37. | 1118 | - | P | | | 20 |
| 38. | 1150 | - | P | | | 15 |
| 39. | 1682 | 1.1 | N | P | | 100 |

REPORT WRITTEN BY Gary Sienke

REPORT APPROVED BY _____

REFERENCE GS-1206-11



Philip A. Hunt Chemical Corporation
Analytical Research

08210010

RESEARCH REPORT No. _____

TO: B. Weisberg

DATE 6/2/82

PROJECT 907/Environmental

TITLE Analysis of Drums from the
Picillo Waste Site

ABSTRACT:

| Sample | pH | Ferric | Ferrous | | Copper | Lead (ppm) | **Chloride (HCl) |
|---------|-----|--------|---------|----|----------|------------|------------------|
| | | | *DMG | AA | | | |
| 1. 346 | 1.0 | N | P | | N | 1 | N |
| 2. 429 | 1.0 | N | N | | N | 800 | P |
| 3. 678 | 1.0 | P | | | P | 4 | |
| 4. 770 | 1.0 | N | N | | N | 4 | N(trace) |
| 5. 897 | 2.5 | N | N | | N | 1 | P |
| 6. 998 | 1.0 | N | N | | N(trace) | 1 | N |
| 7. 1009 | 1.0 | N | | N | P | 1 | P |
| 8. 1013 | 1.5 | P | | | P | 140 | |

*-DMG-Dimethylglyoxime spot test for ferrous iron. Used only on those samples which gave a negative test for ferric iron and copper which interfere. Each sample was diluted 1/100 with distilled water, ammonia was added, and then 2 ml of a 1.0% DMG in methanol solution. A positive test gave a red color.

**Chloride-0.1N Silver Nitrate was added to each sample as received which gave a negative ferric chloride test. A white precipitate was positive.

cc: A. Brodd
J. Leo
A. Stein
E. Fitzgerald
B. Almeida

REPORT WRITTEN BY Gary Sienko

REPORT APPROVED BY _____

REFERENCE GS-1206-23



Philip A. Hunt Chemical Corporation
Analytical Research

08210023

RESEARCH REPORT No. _____

TO: B. Weisberg

DATE 6/21/82

PROJECT 907/Environmental

TITLE Analysis of Drums from the
Picillo Waste Site

ABSTRACT:

| Sample | pH | Ferric | Ferrous | | Copper | Lead (ppm) | **Chloride (HCl) |
|---------|-----|--------|---------|----|----------|------------|------------------|
| | | | *DMG | AA | | | |
| 1. 346 | 1.0 | N | P | | N | 1 | N |
| 2. 429 | 1.0 | N | N | | N | 800 | P |
| 3. 678 | 1.0 | P | | | P | 4 | |
| 4. 770 | 1.0 | N | N | | N | 4 | N(trace) |
| 5. 897 | 2.5 | N | N | | N | 1 | P |
| 6. 998 | 1.0 | N | N | | N(trace) | 1 | N |
| 7. 1009 | 1.0 | N | | N | P | 1 | P |
| 8. 1013 | 1.5 | P | | | P | 140 | |

*-DMG-Dimethylglyoxime spot test for ferrous iron. Used only on those samples which gave a negative test for ferric iron and copper which interfere. Each sample was diluted 1/100 with distilled water, ammonia was added, and then 2 ml of a 1.0% DMG in methanol solution. A positive test gave a red color.

**Chloride-0.1N Silver Nitrate was added to each sample as received which gave a negative ferric chloride test. A white precipitate was positive.

cc: A. Brodd
J. Leo
A. Stein
E. Fitzgerald
B. Almeida

REPORT WRITTEN BY Gary Sienko

REPORT APPROVED BY _____

REFERENCE GS-1206-23



Analytical Research

RESEARCH REPORT No. _____

TO: B. Weisberg

DATE 6/7/82PROJECT 907/EnvironmentalTITLE Analysis of Drums From the
Picaille Waste Site

ABSTRACT:

The following tests were performed on the thirty-nine samples from the Picaille waste site.

Ferric Chloride Test

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Lead Test

Each sample was analyzed for approximate levels of lead by Atomic Absorption Spectroscopy using the following conditions: a Perkin-Elmer 290(B) AA at 283nm with slit setting of 0.7nm and an air-acetylene flame.

REPORT WRITTEN BY Gary Sianke

REPORT APPROVED BY _____

REFERENCE GS-1206-14

cc: A. Bredd
J. Lee
A. Stein
E. Fitzgerald
B. Almeida



Philip A. Hunt Chemical Corporation
Analytical Research

08210025

TO: B. Weisberg

RESEARCH REPORT No. _____

DATE 6/7/82

PROJECT _____

TITLE _____

ABSTRACT:

| <u>Sample</u> | <u>pH</u> | <u>Ferric</u> | <u>Ferrous</u> | <u>Copper</u> | <u>Lead (ppm)</u> |
|---------------|-----------|---------------|----------------|---------------|-------------------|
| 1. 466 | 0.7 | P | | | 105 |
| 2. 467 | 1.7 | N(trace) | P | | 5 |
| 3. 489 | 0.3 | N | N | P | 5 |
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| 11. 986 | 0.6 | N(trace) | P | | 16 |
| 12. 992 | 0.2 | P | | | 15 |
| 13. 1006 | - | P | | | 15 |
| 14. 1010 | 0.1 | P | | | 17 |
| 15. 1012 | 0.2 | P | | | 15 |
| 16. 1027 | 0.5 | P | | | 10 |
| 17. 1032 | 0.1 | P | | | 20 |
| 18. 1033 | 0.9 | N(trace) | P | | 30 |
| 19. 1034 | - | P | | | 17 |

REPORT WRITTEN BY Gary Sienko

REPORT APPROVED BY _____

REFERENCE CS-1206-14

TOP SECRET



Philip A. Hunt Chemical Corporation
Analytical Research

08210026

RESEARCH REPORT No. _____

TO: E. Weisberg

DATE 6/7/82

PROJECT 907/Environmental

TITLE Analysis of Drums From the
Picillo Waste Site

ABSTRACT:

| | <u>Sample</u> | <u>pH</u> | <u>Ferric</u> | <u>Ferrous</u> | <u>Copper</u> | <u>Lead (ppm)</u> |
|-----|---------------|-----------|---------------|----------------|---------------|-------------------|
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| 25. | 1041 | - | P | | | 15 |
| 26. | 1047 | 0.4 | P | | | 20 |
| 27. | 1054 | 0.5 | P | | | 10 |
| 28. | 1057 | 1.0 | P | | | 20 |
| 29. | 1058 | - | P | | | 12 |
| 30. | 1061 | 0.3 | P | | | 20 |
| 31. | 1065 | - | P | | | 10 |
| 32. | 1098 | 0.7 | N | P | | 80 |
| 33. | 1099 | 0.1 | P | | | 100 |
| 34. | 1100 | 0.2 | P | | | 100 |
| 35. | 1104 | 1.0 | N(trace) | P | | 100 |
| 36. | 1105 | 0.1 | P | | | 15 |
| 37. | 1118 | - | P | | | 20 |
| 38. | 1150 | - | P | | | 15 |
| 39. | 1682 | 1.1 | N | P | | 100 |

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REPORT APPROVED BY _____

REFERENCE GS-1206-14